Data Sheet (Cat.No.T70049)



Ro 04-5595 free base

Chemical Properties

CAS No.: 194089-07-1

Formula: C19H22ClNO2

Molecular Weight: 331.84

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description

Ro 04-5595 is a selective antagonist of NMDA receptors NR2B subunits. Ro 04-5595 had an EC 50 of 186 ± 32 nmol/L. Ro 04-5595 was predicted to bind the EVT-101 binding site, not the ifenprodil-binding site. Specific binding, defined with a new NR2B-specific antagonist Ro 04-5595 at 10 microM was fully inhibited by several compounds with the following rank order of affinities--Ro 25-6981 > CP-101,606 > Ro 04-5595 = ifenprodil >> eliprodil > haloperidol > spermine > spermidine > MgCl2 > CaCl2--and partially inhibited by competitive glutamate recognition site antagonists. Complementary high-resolution autoradiographic images using [3H]Ro04-5595 demonstrated strong binding in NR2B receptor-rich regions and low binding in cerebellum where NR2B concentration is low.

Preparing Stock Solutions

	1mg	5mg	10mg	
1 mM	3.0135 mL	15.0675 mL	30.135 mL	
5 mM	0.6027 mL	3.0135 mL	6.027 mL	
10 mM	0.3014 mL	1.5068 mL	3.0135 mL	
50 mM	0.0603 mL	0.3014 mL	0.6027 mL	

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Page 1 of 1 www.targetmol.com